10. Mathematical Operations

Pandas allows you to perform mathematical operations on entire datasets with ease. These operations can be done using both Scalars and functions.

Scalar

Scalar is a simple and straightforward single value. In mathematics, it's a single value like an integer or a float.
Ex:
5, 3.14, -1
These single values often used in more complex data structures like arrays or data frames.

Functions

A function is a block of codes that perform a specific task.
It takes inputs(arguments), process them and returns an output.
Functions can operate on single values(like scalars or variables) or more complex data structures like DataFrames.
Ex:

```
sum(a, b)
max(a, b, c)
```